

Method and device for digital data transmission

ABSTRACT

The present invention relates to a method for digital data transmission, wherein the transmission is effected by carrier frequency modulation and is disturbed by at least two different types of disturbance, the method comprising the following steps at the receiving end: a1) determining an estimate for the power of the received signal; a2) determining an estimate for the signal-to-noise-plus-interference ratio of the received signal; b) supplying at least the estimates determined in the steps a1) and a2) to a decision unit, which determines at least one dominant type of disturbance based on at least one predefinable decision criterion. In addition, the invention relates to a device for receiving data which are digitally transmitted by means of carrier frequency modulation, the device comprising an estimate determining device (12) for determining an estimate for the power of the received signal, a device (10) for determining an estimate for the signal-to-noise-plus-interference ratio of the received signal and a decision unit (14) which is coupled to the device (12) for determining an estimate for the power of the received signal and to the device (10) for determining an estimate for the signal-to-noise-plus-interference ratio and is arranged for determining at least one dominant type of disturbance based on the determined estimate in accordance with at least one predefinable decision criterion. The invention finally relates to a semiconductor module in which the method according to the invention is stored.

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